

Client's ref.: TSMC2003-1082/PE:SimonLu

Our ref.: 0503-A30165-USf/Yianhou/Steve/Nelson

What Is Claimed Is:

1 1. A system for balancing production capacity between
2 different production technologies, comprising:

3 an order management module to receive a first order, and
4 generate a dummy order corresponding to the first
5 order;

6 a reservation module to reserve a first capacity of a first
7 production technology for the first order and a
8 second capacity of a second production technology for
9 the dummy order; and

10 a capacity management module to cancel the first order and
11 direct the dummy order to substitute the first order
12 if a second order requesting the first production
13 technology is received, and release the first
14 capacity to fulfill the second order.

1 2. The system of claim 1 wherein the second order is
2 received before a cut off date for a capacity management cycle.

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1 3. The system of claim 2 wherein the capacity management
2 module further cancels the dummy order and releases the second
3 capacity if the second order is not received before the cut off
4 date for the capacity management cycle.

1 4. The system of claim 1 further comprising a production
2 line to manufacture products of the first order using the second
3 capacity, and manufacture products of the second order using the
4 first capacity.

1 5. The system of claim 1 further comprising an accounting
2 unit to calculate a product discount for the first order.

1 6. The system of claim 1 wherein the first production
2 technology is more advanced than the second production
3 technology.

1 7. A method for balancing production capacity between
2 different production technologies, comprising the steps of:
3 receiving a first order;
4 generating a dummy order corresponding to the first order;

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5 reserving a first capacity of a first production technology

6 for the first order and a second capacity of a second

7 production technology for the dummy order;

8 canceling the first order and directing the dummy order to

9 substitute the first order if a second order

10 requesting the first production technology is

11 received; and

12 releasing the first capacity to fulfill the second order.

1 8. The method of claim 7 wherein the second order is
2 received before a cut off date for a capacity management cycle.

1 9. The method of claim 8 further comprising canceling the
2 dummy order and releasing the second capacity if the second order
3 is not received before the cut off date for the capacity
4 management cycle.

1 10. The method of claim 7 further comprising
2 manufacturing products of the first order using the second
3 capacity, and manufacturing products of the second order using
4 the first capacity.

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1 11. The method of claim 7 further comprising calculating
2 a product discount for the first order.

1 12. The method of claim 7 wherein the first production
2 technology is more advanced than the second production
3 technology.

1 13. A machine-readable storage medium storing a computer
2 program which when executed causes a computer to perform a method
3 for balancing production capacity between different production
4 technologies, the method comprising the steps of:

5 receiving a first order;

6 generating a dummy order corresponding to the first order;

7 reserving a first capacity of a first production technology

8 for the first order and a second capacity of a second

9 production technology for the dummy order;

10 canceling the first order and directing the dummy order to

11 substitute the first order if a second order

12 requesting the first production technology is

13 received; and

14 releasing the first capacity to fulfill the second order.

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1 14. The storage medium of claim 13 wherein the second
2 order is received before a cut off date of a capacity management
3 cycle.

1 15. The storage medium of claim 14 wherein the method
2 further comprises a step of canceling the dummy order and
3 releasing the second capacity if the second order is not received
4 before the cut off date of the capacity management cycle.

1 16. The storage medium of claim 13 wherein the method
2 further comprises a step of manufacturing products of the first
3 order using the second capacity, and manufacturing products of
4 the second order using the first capacity.

1 17. The storage medium of claim 13 wherein the method
2 further comprises a step of calculating a product discount for
3 the first order.

1 18. The storage medium of claim 13 wherein the first
2 production technology is more advanced than the second
3 production technology.